AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A control system that controls operation of an engine to achieve a desired vehicle drive characteristic, comprising:

a pedal sensor that generates a pedal device position signal;

an adjusted pedal module that determines an adjusted pedal based on said pedal device position signal and a vehicle speed, wherein said adjusted pedal is a precalibrated value based on a desired acceleration drive characteristic, which provides a comfortable drive feel as the vehicle accelerates; and

an engine torque request module that determines an engine torque request based on said adjusted pedal and an engine speed.

- 2. (Original) The control system of claim 1 further comprising a controller that controls said engine based on said engine torque request to produce a desired engine torque.
- 3. (Original) The control system of claim 1 further comprising an output shaft speed sensor that generates an output shaft speed signal, wherein said output shaft speed signal is indicative of a rotational speed of an output shaft of a transmission that is driven by said engine.

- 4. (Original) The control system of claim 3 wherein said vehicle speed is based on said output shaft speed signal.
- 5. (Original) The control system of claim 1 wherein said adjusted pedal is determined from a look-up table based on said pedal input position and said vehicle speed.
- 6. (Original) The control system of claim 1 wherein said adjusted pedal module calculates said adjusted pedal based on said pedal device position and said vehicle speed using a mathematical model.
- 7. (Original) The control system of claim 1 wherein said engine torque request is determined from a look-up table based on said adjusted pedal and said engine speed.
- 8. (Original) The control system of claim 1 wherein said engine torque request module calculates said engine torque request based on said adjusted pedal and said engine speed using a mathematical model.
- 9. (Original) The control system of claim 1 further comprising an engine speed sensor that generates an engine speed signal.
- 10. (Currently Amended) A control system that controls operation of an engine to achieve a desired vehicle drive characteristic, comprising:

a pedal device;

a pedal sensor that generates a pedal device position signal; and

a controller that determines an adjusted pedal based on said pedal device position signal and a vehicle speed, that determines an engine torque request based on said adjusted pedal and an engine speed and that controls said engine based on said engine torque request to produce a desired engine torque, wherein said adjusted pedal is a pre-calibrated value based on a desired acceleration drive characteristic, which provides a comfortable drive feel as the vehicle accelerates.

- 11. (Original) The control system of claim 10 further comprising an output shaft speed sensor that generates an output shaft speed signal, wherein said output shaft speed signal is indicative of a rotational speed of an output shaft of a transmission that is driven by said engine.
- 12. (Original) The control system of claim 11 wherein said vehicle speed is based on said output shaft speed signal.
- 13. (Original) The control system of claim 10 wherein said adjusted pedal is determined from a look-up table based on said throttle input position and said vehicle speed.

- 14. (Original) The control system of claim 10 wherein said controller calculates said adjusted pedal based on said pedal device position and said vehicle speed using a mathematical model.
- 15. (Original) The control system of claim 10 wherein said engine torque request is determined from a look-up table based on said adjusted pedal and said engine speed.
- 16. (Original) The control system of claim 10 wherein said controller calculates said engine torque request based on said adjusted pedal and said engine speed using a mathematical model.
- 17. (Original) The control system of claim 10 further comprising an engine speed sensor that generates an engine speed signal.
- 18. (Currently Amended) A method of controlling operation of an engine to achieve a desired vehicle drive characteristic, comprising:

determining an adjusted pedal based on a pedal position and a vehicle speed, wherein said adjusted pedal is a pre-calibrated value based on a desired acceleration drive characteristic, which provides a comfortable drive feel as the vehicle accelerates;

determining an engine torque request based on said adjusted pedal and an engine speed; and

controlling said engine based on said engine torque request to produce a desired engine torque.

- 19. (Original) The method of claim 18 further comprising:

 generating a pedal input position signal using a pedal position sensor; and
 generating an output shaft speed signal using an output shaft speed sensor,
 wherein said output shaft speed signal is indicative of a rotational speed of an output
 shaft of a transmission that is driven by said engine.
- 20. (Original) The method of claim 19 further comprising determining said vehicle speed based on said output shaft speed signal.
- 21. (Original) The method of claim 18 wherein said adjusted pedal is determined from a look-up table based on said pedal input position and said vehicle speed.
- 22. (Original) The method of claim 18 wherein said adjusted pedal is calculated based on said pedal input position and said vehicle speed using a mathematical model.
- 23. (Original) The method of claim 18 wherein said engine torque request is determined from a look-up table based on said adjusted pedal and said engine speed.

- 24. (Original) The method of claim 18 wherein said engine torque request is calculated based on said adjusted pedal and said engine speed using a mathematical model.
- 25. (Original) The method of claim 18 further comprising generating an engine speed signal using an engine speed sensor.
- 26. (Currently Amended) A vehicle having an engine that is controlled using an engine torque-based control to achieve a desired vehicle drive characteristic, comprising:

a pedal device; and

a controller that determines an adjusted pedal based on a position of said pedal device and a vehicle speed, that determines an engine torque request based on said adjusted pedal and an engine speed and that controls said engine based on said engine torque request to produce a desired engine torque, wherein said adjusted pedal is a pre-calibrated value based on a desired acceleration drive characteristic, which provides a comfortable drive feel as the vehicle accelerates.

- 27. (Original) The vehicle of claim 26 further comprising a pedal sensor that generates a throttle device position signal.
- 28. (Original) The vehicle of claim 26 further comprising:

a transmission that is driven by said engine and that includes an output shaft; and

an output shaft speed sensor that generates an output shaft speed signal, wherein said vehicle speed is determined based on said output shaft speed signal.

- 29. (Original) The vehicle of claim 26 wherein said adjusted pedal is determined from a look-up table based on said pedal device position and said vehicle speed.
- 30. (Original) The vehicle of claim 26 wherein said controller calculates said adjusted pedal based on said pedal device position and said vehicle speed using a mathematical model.
- 31. (Original) The vehicle of claim 26 wherein said engine torque request is determined from a look-up table based on said adjusted pedal and said engine speed.
- 32. (Original) The vehicle of claim 26 wherein said controller calculates said engine torque request based on said adjusted pedal and said engine speed using a mathematical model.
- 33. (Original) The vehicle of claim 26 further comprising an engine speed sensor that generates an engine speed signal.